

ecology and environment, inc.

CLOVERLEAF BUILDING 3, 6405 METCALF, OVERLAND PARK, KANSAS 66202, TEL. 913/432-9961

International Specialists in the Environment

MEMORANDUM

TO:

Pete Culver, RPO

THRU:

Philip Dula, AFITOM

FROM:

Steven Vaughn, E & E/FIT

DATE:

December 5, 1988

SUBJECT: Preliminary Assessment for the K.C. Coal Gas Site located in

Kansas City, Missouri

TDD #F-07-8804-036 PAN #FM00655PA Site #V09

Project #001

Superfund Contact: Greg Reesor

INTRODUCTION

The Ecology and Environment, Inc., Field Investigation Team (E & E/FIT) was tasked by the Region VII U.S. Environmental Protection Agency (EPA) to conduct a preliminary assessment of the Kansas City Coal Gas Plant. The site was identified by EPA as a potential hazardous waste site through a general search of all defunct coal gas plants in Region VII. Waste disposal practices typical of other coal gas plants operating during this time frame was on-site burial. Wastes include coal tars and oxides containing cyanide.

An on-site reconnaissance was conducted by Steven Vaughn and Eric Hess of E & E/FIT on September 28, 1988.

SITE DESCRIPTION AND HISTORY

The K.C. Coal Gas Plant was located on the Missouri River floodplain (approximately river mile 366.75) in downtown Kansas City. The approximate legal description for the site is S 1/2, NE 1/4, Section 32, T. 11 S., R. 33 W. (Figure 1).

According to old city directories and the Brown's Directory, the K.C. Coal Gas Plant operated from approximately 1872 to 1896 as the K.C. Gas Light and Coke Company. In 1896 the company changed names to the K.C. Gas Company until about 1907 when the company switched from manufactured gas to natural gas. The facility will be referred to as the K.C. Coal Gas Plant in this report.

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The K.C. Coal Gas Plant consisted of two stations: "Station A" and "Station B". Station A was located between the Missouri River and Second Street and between Gillis and Campbell streets (Figure 2). During the on-site reconnaissance it was noted that all of "Station A" has been razed with no remnants. The location of the former coke shed and retort house is now a gravel parking lot used by KP & L, the current site owner. The area north of Front Street is covered by several railroad tracks. The location of the old gas holders is used for KP & L construction storage.

"Station B" was located between First and Third streets and between Gillis and Troost streets (Figure 2). During the site reconnaissance it was noted that many of the old buildings remain standing and are being used by KP & L as offices, storage, and garages by KP & L. It was also noted that a portion of one of the large gas holders is still standing and is encrusted with solidified tar. All areas not containing buildings have been asphalted or covered with gravel and used as driveways or parking areas.

The 1895 Sanborn Fire Insurance Map shows a pitch distillery and tar paper manufacturing plant, roofing company, and an ammonia company located in the vicinity of the plant (Figure 2). It is likely that a majority of the wastes produced by the K.C. Coal Gas Plant were distributed to these companies for reuse.

The site contact for a majority of the property is Allen Kettle, Environmental Coordinator for KP & L. Ownership of the property north of Front Street has not been established, however due to the extensive number of railroad tracks crossing the area it is suspected to be a railroad company.

STRATIGRAPHY AND HYDROGEOLOGY

The old K.C. Coal Gas Plant was located on the Missouri River floodplain approximately 1,000 feet south of the river. The soils in the area consist of the Haynie Urban Land-Leta Association. The soils are nearly level, moderately well drained and somewhat poorly drained soils that formed in the alluvium of the Missouri River floodplain (USDA 1984). Alluvial thickness is estimated to be approximately 85 to 90 feet with a water table at 20 feet (USGS 1975). Bedrock underlying the site is of the Kansas City Group which is composed of alternating limestone and shale members.

Ground water flows in the vicinity of the site is expected to be north-northeast toward the Missouri River. The water table is under unconfined conditions and discharges into the Missouri River. At times of high river flow ground water flow may be reversed with aquifer recharge occurring (USGS 1970).

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The entire vicinity of the site is served by the Kansas City Municipal Water District, which draws its water from surface water intakes on the Missouri River upgradient of the site. There are no known surface water intakes three miles downgradient of the site. There are no known domestic wells within a five-mile radius of the site (Hasan 1988; MDNR 1980).

SUMMARY AND CONCLUSIONS

The quantity of waste and the potential disposal areas are unknown. No past records of the facility operations exist in the KP & L file. There are no known survivors that worked at the plant due to its extreme age. Station A of the coal gas plant has been demolished, making location of any alleged disposal areas impossible. Station B is currently used by KP & L with may of the original buildings still in use. A majority of the area is covered by asphalt and gravel. Other companies located near the coal gas plant such as a tar and roofing company, pitch distillery, and an ammonia company suggest that at least some of the wastes were sold and recycled by these companies. No surficial wastes were noted by the E & E/FIT during on-site reconnaissance.

Attachments: Bibliography

Figures 1 and 2 PA Form 2070-12

BIBLIOGRAPHY

- Edison Electric Institute, September 1984, <u>Handbook on Manufactured Gas</u>
 Plant Sites.
- Hasan, Syed E., Moberly, Richard L., Caoile, John A., Geology of Greater Kansas City, Missouri and Kansas, <u>Bulletin of the AEG</u>, Volume XXV, Number 3, August 1988.

HRS Users Manual

Missouri Department of Natural Resources, 1980, <u>Census of Missouri</u> Public Water Supplies

Sanborn Fire Insurance Map, 1895

- U.S. Department of Agriculture, 1984, Soil Survey of Jackson County, Missouri, Washington, D.C.
- U.S. Geological Survey, 1970, Hydrologic Atlas HA-344, Reconnaissance of the Ground Water Resources of the Missouri River Alluvium Between Miami and Kansas City, Missouri, Washington, D.C.
- U.S. Geological Survey, 1975, 7.5 Minute Series Topographic Map, Kansas City, Missouri, Quadrangle, Missouri, Washington, D.C.

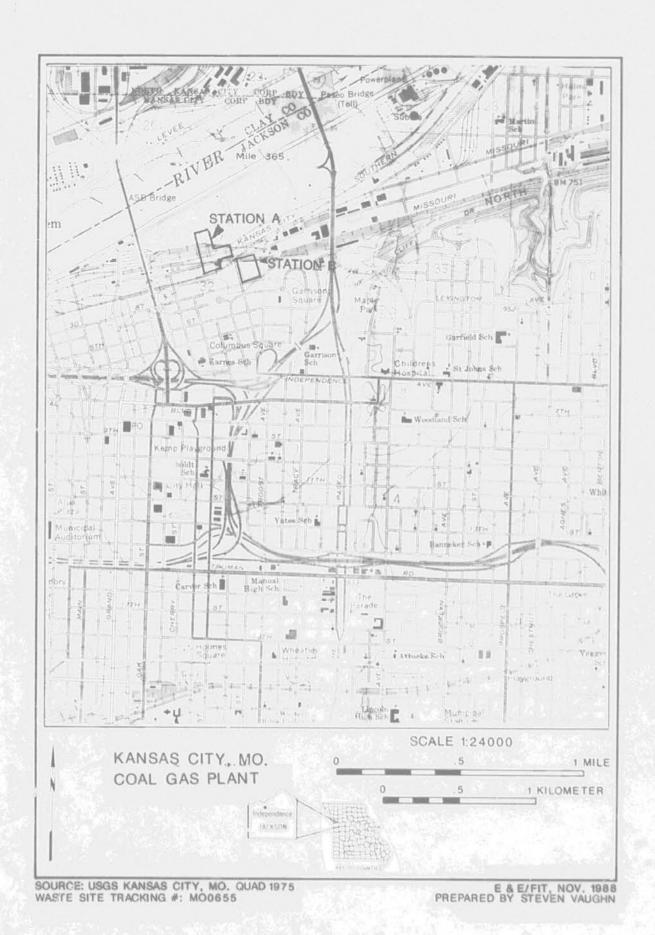
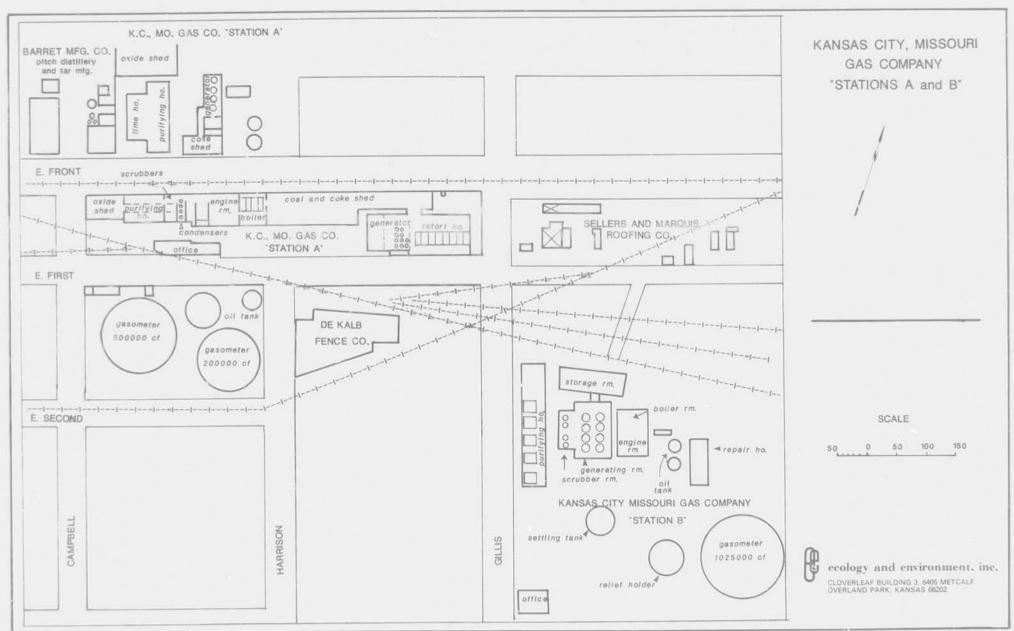


FIGURE 1: SITE LOCATION MAP



Weste Site Tracking # : MO8666 Ref .: SAMBORN FIRE INSURANCE 1895 prepared by Steven Vaughn

Nov. 1988

POTENTIAL HAZARDOUS WASTE SITE I. IDENTIFICATION 01 STATE 02 SITE NUMBER MO Unassigned EPA PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT II. SITE NAME AND LOCATION 01 SITE NAME (Legal, common, or descriptive name of site) 02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Kansas City Coal Gas 1st and Campbell 03 CITY 04 STATE 05 ZIP CODE 06 COUNTY 07 COUNTY 08 CONG Kansas City Jackson 09 COORDINATES LATITUDE LONGITUDE 39° 5' 45" N 094° 34' 15" W 10 DIRECTIONS TO SITE (Starting from nearest public road) The site is located in downtown Kansas City between the Missouri River and Third Street and between Campbell and Troost streets. III. RESPONSIBLE PARTIES 01 OWNER (If known) 02 STREET (Business, mailing, residential) Kansas Power & Light (KP & L) 818 Kansas Ave 03 CITY 04 STATE 05 ZIP CODE 06 TELEPHONE NUMBER Topeka KS 66601 (913) 296-6578 07 OPERATOR (If known and different from owner) 08 STREET (Business, mailing, residential) 09 CITY 10 STATE 11 ZIP CODE 12 TELEPHONE NUMBER 13 TYPE OF OWNERSHIP (Check one) X A. PRIVATE ___B. FEDERAL: __ C. STATE D. COUNTY E.MUNICIPAL (Agency name) F. OTHER: G. UNKNOWN (Specify) 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) _A. RCRA 3001 DATE RECEIVED: __B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: XC. NONE MO/DAY/YR MO/DAY/YR IV. CHARACTERIZATION OF POTENTIAL HAZARD 01 ON SITE INSPECTION BY(Check all that apply) X YES DATE 09/28/88 A. EPA X B. EPA CONTRACTOR C. STATE D. OTHER CONTRACTOR MO/DAY/YR NO E. LOCAL HEALTH OFFICIAL F. OTHER: (Specify) CONTRACTOR NAME(S): Ecology and Environment, Inc. 02 SITE STATUS (CHECK ONE) 03 YEARS OF OPERATION A. ACTIVE X B. INACTIVE 1907 C. UNKNOWN est. 1872 UNKNOWN BEGINNING YEAR ENDING YEAR 04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED Potential on-site disposal of wastes resulting from coal gas manufacturing. Wastes may include coal tars which consist of PAH compounds. In addition, oxide wastes containing cyanide may have been disposed on site.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous conditions and Incidents) C. Low B. MEDIUM X D. NONE (Inspection required (Inspection required) (Inspect on time promptly) (No further action needed. Complete current disposition form) VI. INFORMATION AVAILABLE FROM

Only potential hazard noted by FIT personnel is through future construction on site property which may uncover alleged waste.

01 CONTACT 02 OF (Agency/Organization) Gred Reesor Environmental Protection Agency, Superfund

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

03 TELEPHONE NUMBER (913) 236-2856 04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY 06 ORGANIZATION 07 TELEPHONE NUMBER Steven Vaughn ELE FIT (913) 432-9961

			POTENTIAL BAZAR	DUUS WASTE SITE			I. IDENTI	PICATION
EPA		PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION					01 STATE	02 SITE NUMBER Unassigned
						201	110	1 onassigned
II. WASTE ST	ATES, QUANTITIES, A	ND CHA	RACTERISTICS					
Ol PHYSICAL	STATES	02 WA	STE QUANTITY AT SI	TE 03 WASTE CHARACTE	RISTICS			
(Check all t	hat apply)	(Meas	ures of waste quan must be independen	ti- (Check all that a	oply)			
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B. POWDER	FINESF. LIQUID		TONS	B. CORROSIVE	F.	INFECTIO	ousj.	EXPLOSIVE
X C. SLUDGE	G. GAS		TONS	C. RADIOACTIV	G.	FLAMMAB	E K.	REACTIVE
D. OTHER		CUBI	C YARDS Unknown	X D. PERSISTENT	н.	IGNITABI	E L.	INCOMPATIBLE
	(Specify)	NO. O	F DRUMS				M.	NOT APPLICABLE
III. WASTE T	YPE				100			
CATEGORY	SUBSTANCE NAME		01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COM	MENTS		
SLU	SLUDGE		Unknown	1	Coal t	ar	1000	
OLW	OILY WASTE					41		
SOL	SOLVENTS							
PSD	PESTICIDES	1 :						
occ	OTHER ORGANIC CHEM	ICALS						
IOC	INORGANIC CHEMICAL		Unknown		Oxide	wastes		
ACD	ACIDS				UNICH	WASCOS		
BAS	BASES							
MES	HEAVY METALS							
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01 CATEGORY	02 SUBSTANCE NAM	E	03 CAS NUMBER	04 STORAGE/DISPOSAL	METHOD	05 CONC	ENTRATION	06 MEASURE OF CONCENTRATION
SLU	Coal tar containi	ng	PAH compounds	The state of the s		Unknow	m	1 -4
IOC	Oxide waste poten	tially	containing	cyanides		Unknow	m	
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Kansas City Coal Gas

POTENT	TIAL HAZARDOUS WASTE SITE	I. IDENTIFICA	TION		
' EPA PE	RELIMINARY ASSESSMENT	01 STATE 02 SI	01 STATE 02 SITE NUMBER MO Unassigned		
PART 3 - DESCRIPTI	ON OF HAZARDOUS CONDITIONS AND INCIDE	INTS MO Unas	signed		
II. HAZARDOUS CONDITIONS AND INCIDENTS					
01 X A. GROUNDWATER CONTAMINATION	02 OBSERVED (DATE:) X POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED: 0	04 NARRATIVE DESCRIPTION				
PAH compounds could potentially leach from t in the site vicinity.	the alleged buried coal tars; however	there is no known o	round water usage		
in the site vicinity.					
01B. SURFACE WATER CONTAMINATION	02 GBSERVED (DATE:) POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION				
None known or reported to date. Not likely	as the alleged wastes are buried.				
01C. CONTAMINATION OF AIR	02 OBSERVEO (DATE:)POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:					
Not likely as the alleged wastes are buried.	During a site reconnaissance no sur	face wastes were ob	served.		
01 D. FIRE/EXPLOSIVE CONDITIONS	02 OBSERVED (DATE:) POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		ALLEGED		
None known or reported to date.	UN NARRATIVE DESCRIPTION				
None known of reported to date.					
01 E. DIRECT CONTACT	02 OBSERVED (DATE:) POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION				
None known or reported to date.					
01 X F. CONTAMINATION OF SOIL	02 OBSERVED (DATE:) X POTENTIAL	ALLEGED		
03 AREA POTENTIALLY AFFECTED: Unknown	04 NARRATIVE DESCRIPTION				
(Acres)					
There is a potential for soil contamination these wastes cannot be determined due to the	from the alleged burie waste, howeve	r the existence and	location of		
these wastes cannot be determined due to the	age of the site.				
AT C DETRICTED WATER COMMANDATION	0.1 ODGERNIER / DAME.	nomenus			
01G. DRINKING WATER CONTAMINATION	02OBSERVED (DATE:	POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION				
None known or reported to date. The area is Missouri River upgradient of the site	served by Kansas City municipal wate	r which is collecte	d from the		
01 H. WORKER EXPOSURE/INJURY	02 OBSERVED (DATE:) POTENTIAL	ALLEGED		
03 WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION				
None known or reported to date.					
			ALCOHOL: The P		
01I. FOPULATION EXPOSURE/INJURY	02 OBSERVED (DATE:	POTENTIAL	ALLEGED		
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		Small Land		
None known or reported to date.					
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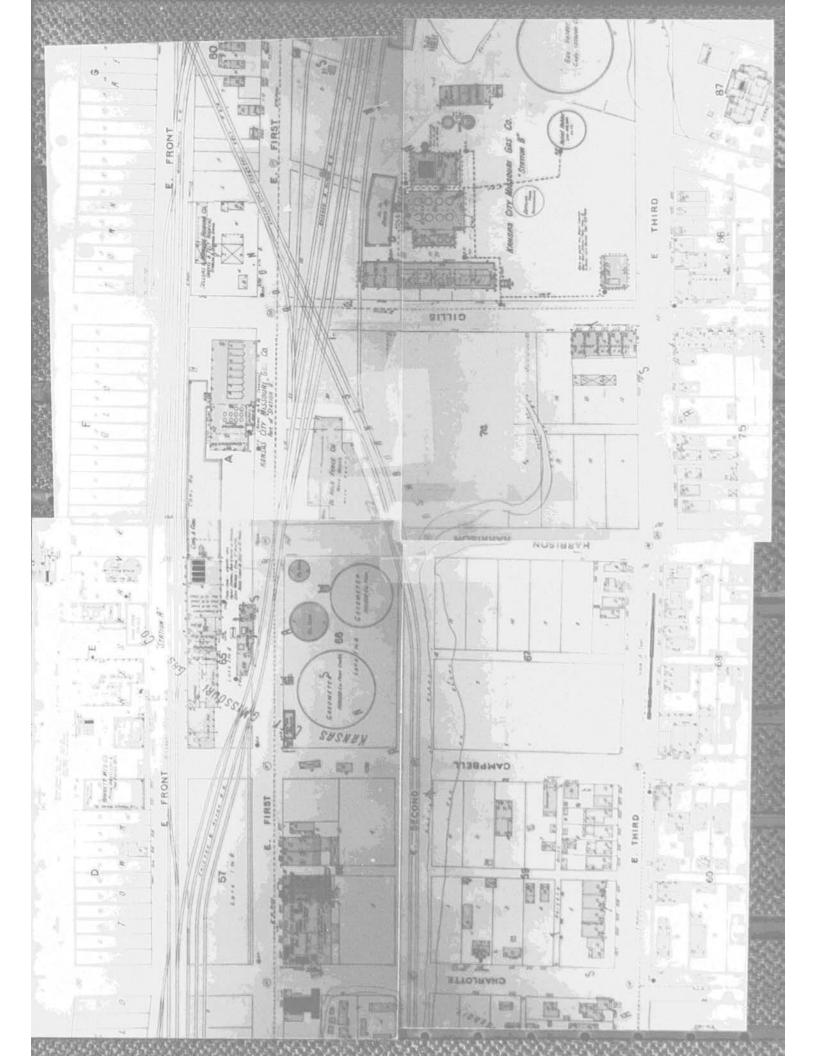
Kansas City Coal Gas

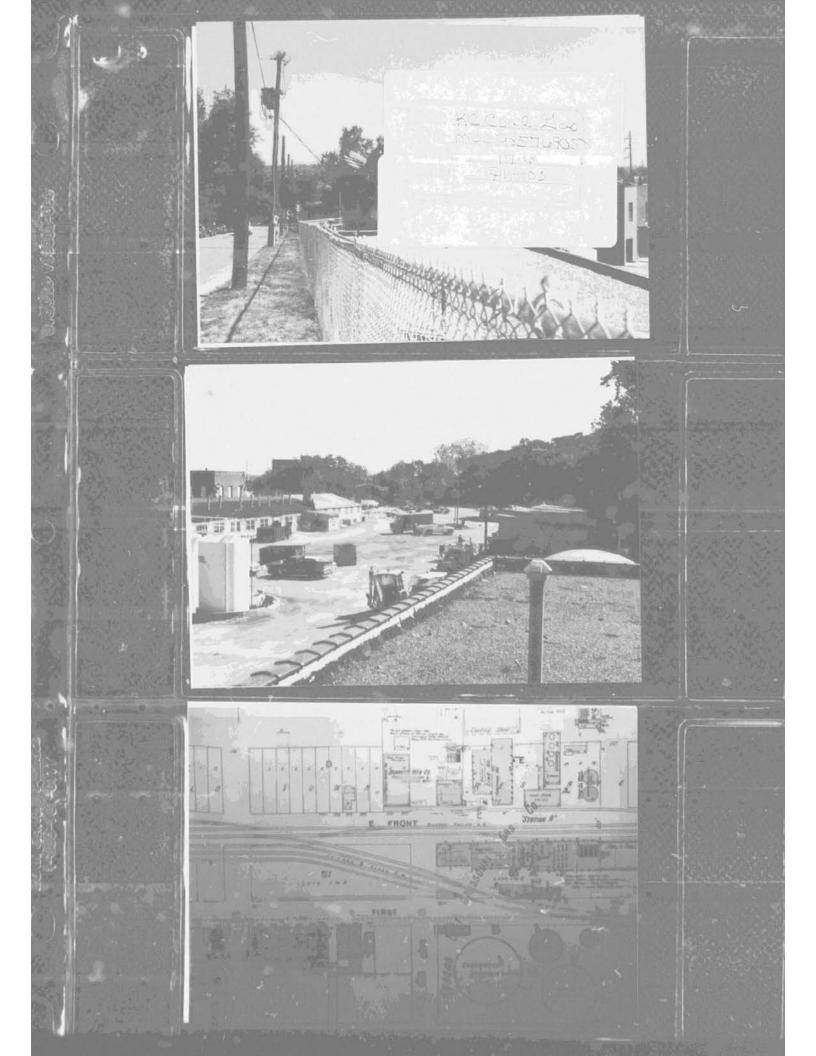
POTENTIAL	HAZA	RDOUS WASTE SITE	01 STATE 02 SITE NUMBER MO Unassigned			
, EPA PRELI	MINAR	Y ASSESSMENT				
PART 3 - DESCRIPTION	OF HA	ZARDOUS CONDITIONS AND INCIDENTS	MO O	nassigned		
II. HAZARDOUS CONDITIONS AND INCIDENTS (CONTIN	UED)					
01 J. DAMAGE TO FLORA	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
04 NAPRATIVE DESCRIPTION						
None known or reported to date.						
01 K. DAMAGE TO FAUNA	0.2	OBSERVED (DATE:)	DOMPNIE	TAT ATTROPS		
04 NARRATIVE DESCRIPTION (Include name(s) of spec			POIDNI	TAL ALLEGED		
None known or reported to date.	01001					
none known of reported to date.						
01L. CONTAMINATION OF FOOD CHAIN	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
04 NARRATIVE DESCRIPTION						
None known or reported to date.						
01 M. UNSTABLE CONTAINMENT OF WASTES	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
(Spills/runoff/standing liquids/leaking drums)						
03 POPULATION POTENTIALLY AFFECTED:	0.4	NARRATIVE DESCRIPTION				
None known or reported to date.						
01N. DAMAGE TO OFFSITE PROPERTY	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
04 NARRATIVE DESCRIPTION						
None known or reported to date.						
01 O. CONTAMINATION OF SEWERS.	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
01O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs		Committee (Detail)		THE MELECULE		
04 NARRATIVE DESCRIPTION						
None known or reported to date.						
01P. ILLEGAL/UNAUTHORIZED DUMPING	0.2	OBSERVED (DATE:)	POTENT	IAL ALLEGED		
04 NARRATIVE DESCRIPTION						
None known or reported to date.						
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR	ATT P	PPD HATARDO				
Future consturction in the area could uncover th						
racate consediction in the area could discover th	in Dui	ried wastes				
III. TOTAL POPULATION POTENTIALLY AFFECTED: None)					
IV. COMMENTS						
The FIT recommendation is that no further action	isv	warranted at the site. However, in	nformation	concerning		
The FIT recommendation is that no further action potential buried waste should be placed on the property.	proper	rty deed to protect future property	y owners sho	ould any		
V. SOURCES OF INFORMATION (Cite specific referen	ces.	e.q., state files, sample analys:	is, reports)			
		and the second second second second				
E & E/FIT Preliminary Assessment						

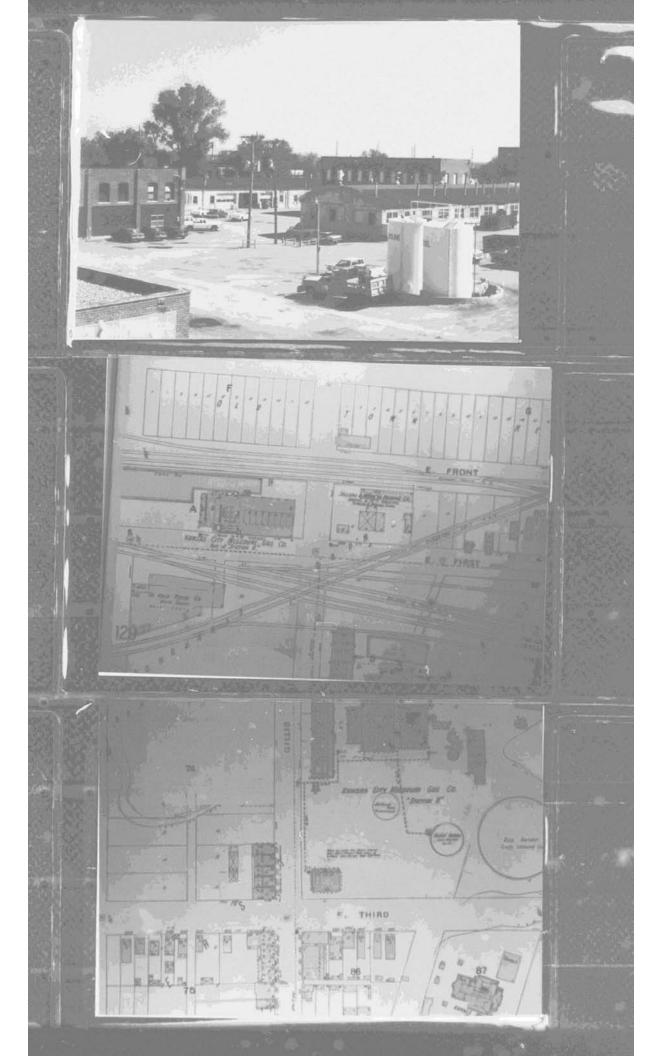
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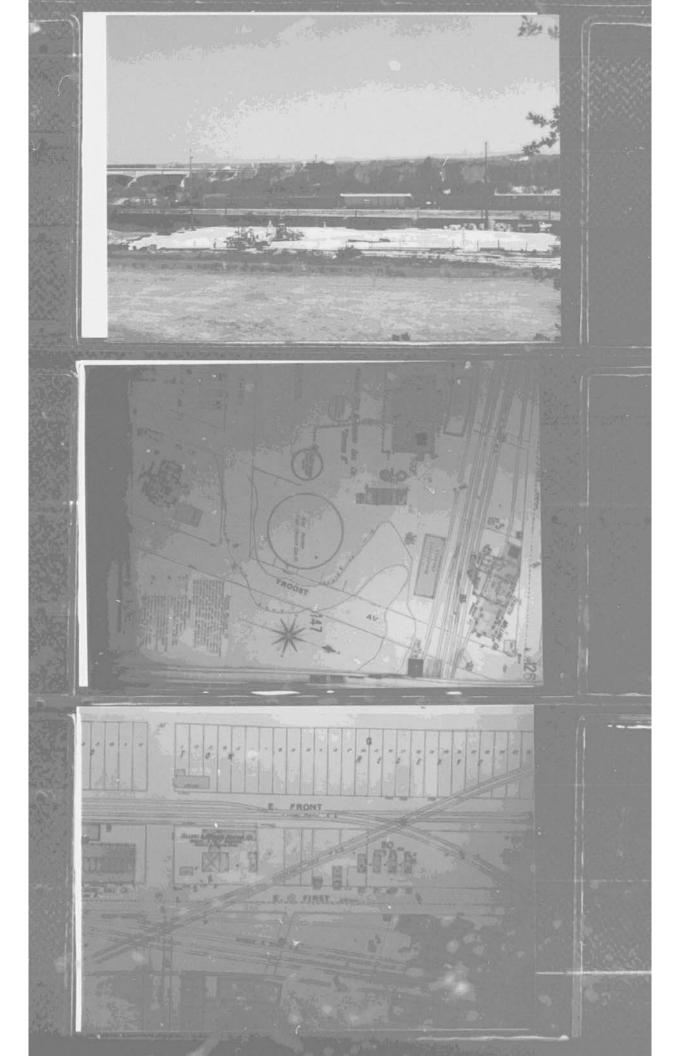
I. IDENTIFICATION

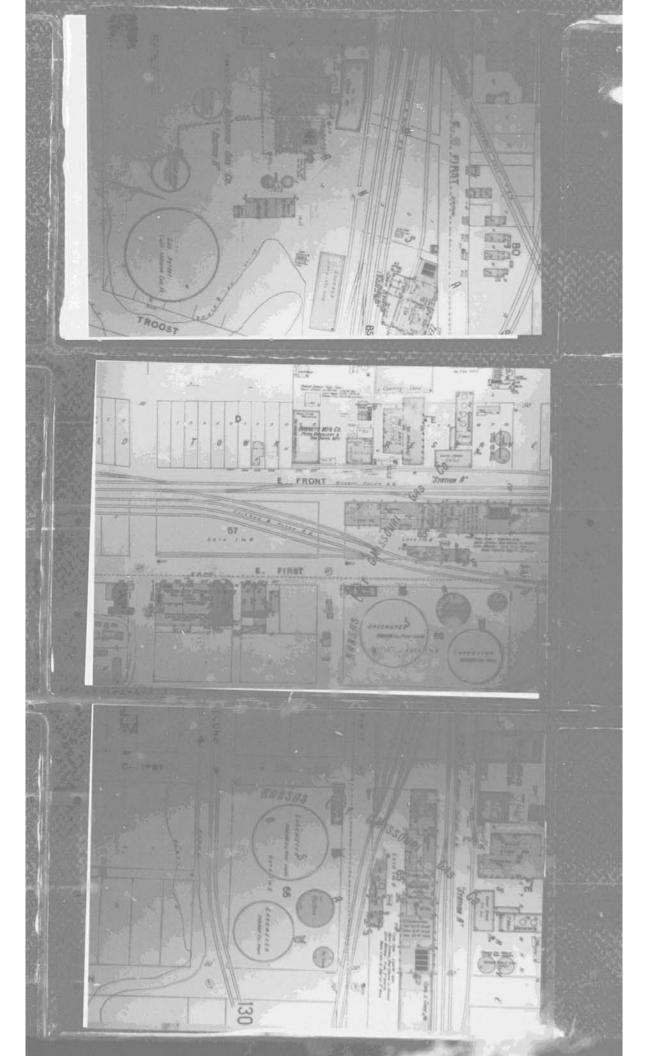
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II. SITE NAME AND LOCATIO	ON							
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Kansas City Gas Company				& Campbe				
Kansas City				05 ZIP CODE	06 COUNTY Jacks		07COUNTY CODE	08 CONG
09 DIRECTIONS TO SITE Starting from	Daarast public Mart		1.10		Ouchs	UII		
The potential sit site occupied sev Troost and Campbe	eral city bloc							blo
III. RESPONSIBLE PARTIES								
01 OWNER (Exhaus)			02 STREE	T (Business residen	na. maeng-			
Presently unknown								
03.014			04 STATE	OS ZIP CODE	06 TELEPHO	ONE NUMBER	H	
Presently unknown			OB STREE	T Business resident	ha maning			
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13 TYPE OF OWNERSHIP Check one X A PRIVATE		ance name		C STATE		DUNTY DE	MUNICIPAL	
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D: TYPE OF SITE Chack at Instance,								
X A STORAGE _ B TREA		Atial D UNAUT	THORIZED C	UMPING &	E OTHER	Coal Gas	Nfg.	
oz summary of known problem	S (Provide narretive description					Mot 95	12 12 1 0 4 12 1 1 5 8 1 . A	
03 SUMMARY OF ALLEGED OR POTE	ENTIAL PROBLEMS Provide ner	arve description						
Potential on-site may include coal trenches contamin	tar and oxide	wastes whic	I may	rom coal have bee	gas ma n burie	nufacturi ed in shal	ng. Waste low	S
VI. INFORMATION AVAILABL	EFROM							
01 CONTACT 02 OF (Agency, Organization)			03 TELEPHONE NUMBER				MBER	
Kerny Herndon		Region VII	EPA -	Superfu	nd		1 513 236-	2356
L. Steven Vaug	in	05 AGENCY	06 ORGAN	IZATION	07 TEL	1432-9561		

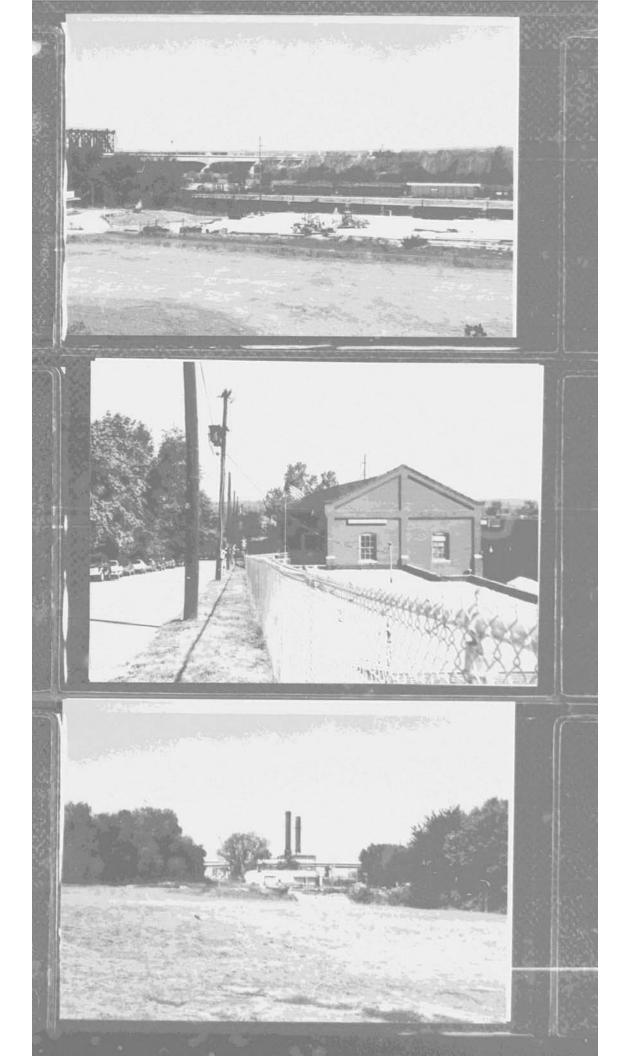


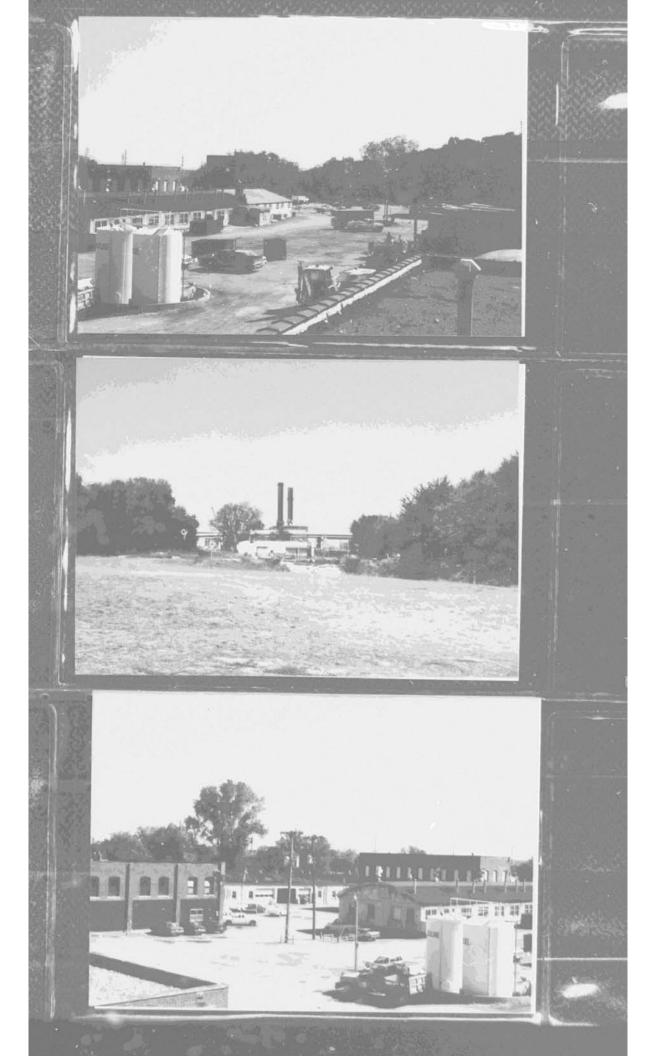












& EPA

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POTENTIAL HAZARDOUS WASTE SITE

ECION				
		(20)	5168.	

FINAL STRATEGY DETERMINATION File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460. I. SITE IDENTIFICATION A. SITE NAME II. FINAL DETERMINATION indicate the recommended action(s) and agency(ies) that should be involved by marking 'X' in the appropriate boxes. ACTION AGENCY RECOMMENDATION MARK'R' STATE LOCAL EPA THIVALE A. HO ACTION HEEDED B. REMEDIAL ACTION RECEDO. BUT NO RESOURCES AVAILABLE (If yes, complete Section III.) C. REMEDIAL ACTION (II you, complete Section IV.) D. ENFONCEMENT ACTION (If yes, specify in Part E whother the case will be primarily managed by the EPA or the State and what type of enforcement action is anticipated.) E. RATIONALE FOR FINAL STRATEGY DETERMINATION Coal gas manufacturing plant (18/2-1907). Site reconnaissance revealed no signs of surficial waste. Possibility of buried waste does exist. However, a more likely possibility is that the waste was used as a raw material by other businesses (pitch distillery, tar paper manufacturing plant, roofing company, and ammonia plant) in the immediate area. F. IT A CASE DEVELORMENT PLAN HAS DEEN PREPARED, SPECIFY | G. IF AN ENFORCEMENT CASE HAS DEEN SILED, SPICITY THE THE DATE PREPARED (mm., day, & yr.) DATE FILED (mo., day, 6 yr.) II. PREPAREA INFORMATION 1. NAME III. REMEDIAL ACTIONS TO BE TAKEN WHEN RESOURCES BECOME AVAILABLE List all remedial actions, such as excavation, removal, etc. to be taken as goon as resources become available. See in tentions for a list of Key Words for each of the actions to be used in the spaces below. Provide an estimate of the approximate cost of the remedy. A. REHEDIAL ACTION B. ESTIMATED COST C. REMARKS 5 5 S

EPA Form 17070-5 (10-79)

D. TOTAL ESTIMATED COST

5

Continue On Kerrise